SCHEMATIC OF THE HEATHKIT RADIATION MONITOR MODEL RM-4

NOTES:

1. All resistors are 1/4-watt, 5% tolerance unless otherwise noted (K = 1000, M = 1,000,000).

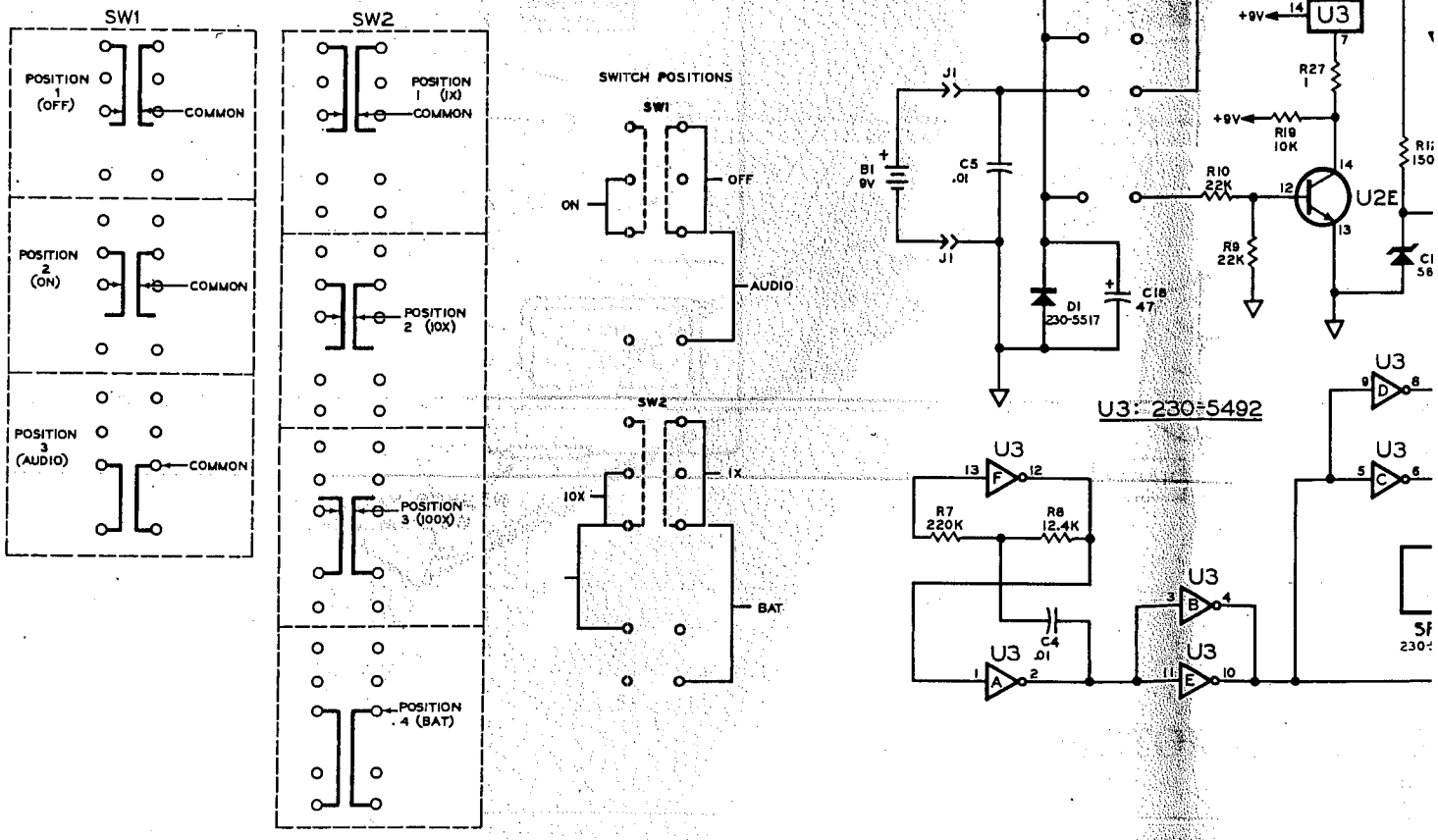
2. Capacitors less than 1 are in μF (microfarads); those 1 or greater are in pF (picofarads), unless otherwise noted.

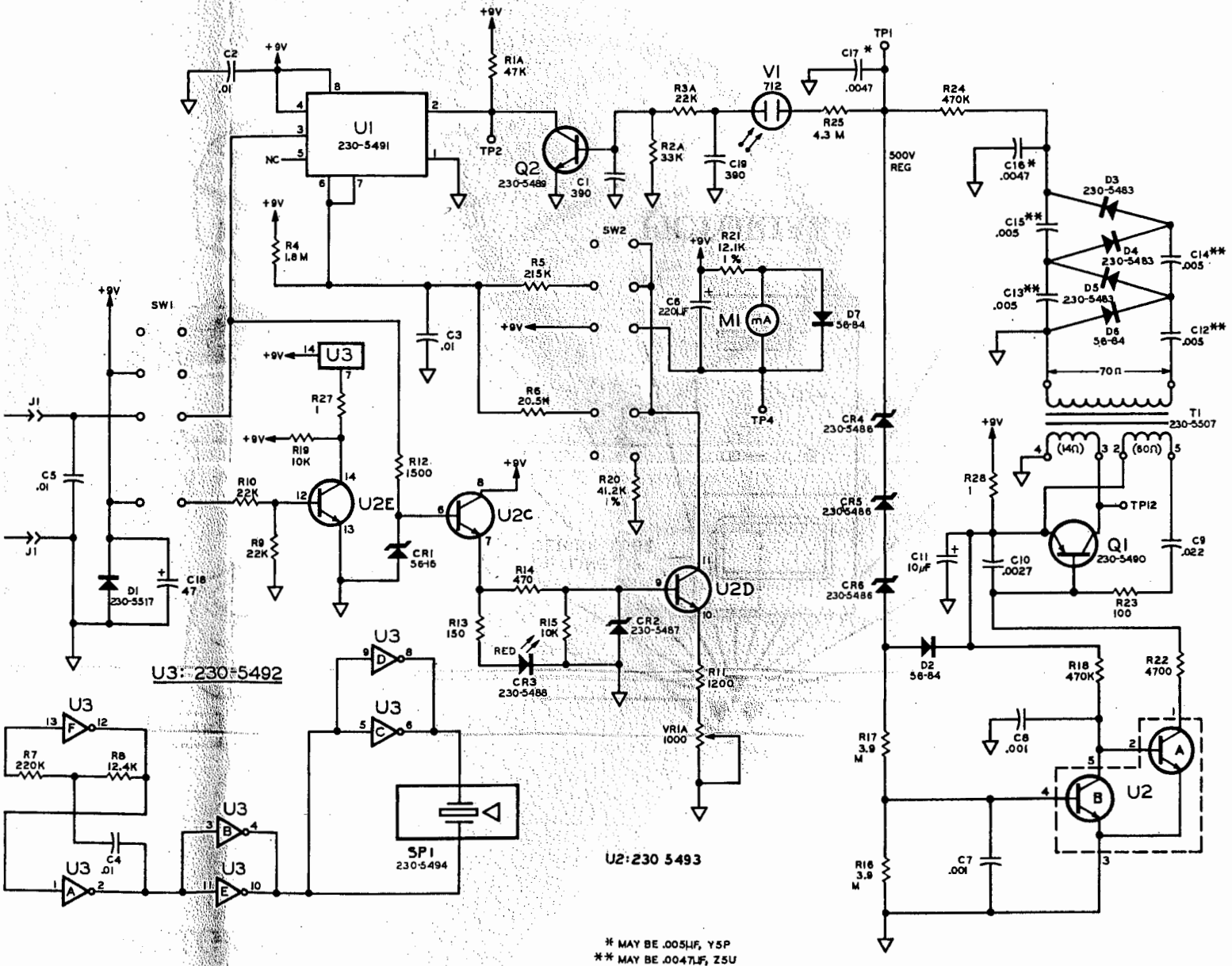
3. The following symbols are used on this schematic diagram:

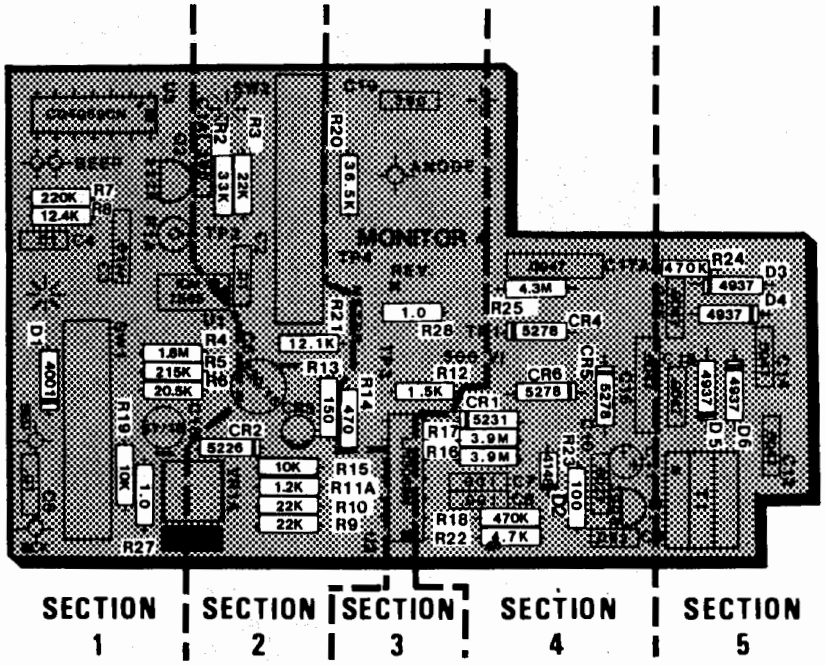
   Circuit board ground.

   Circuit board test point.

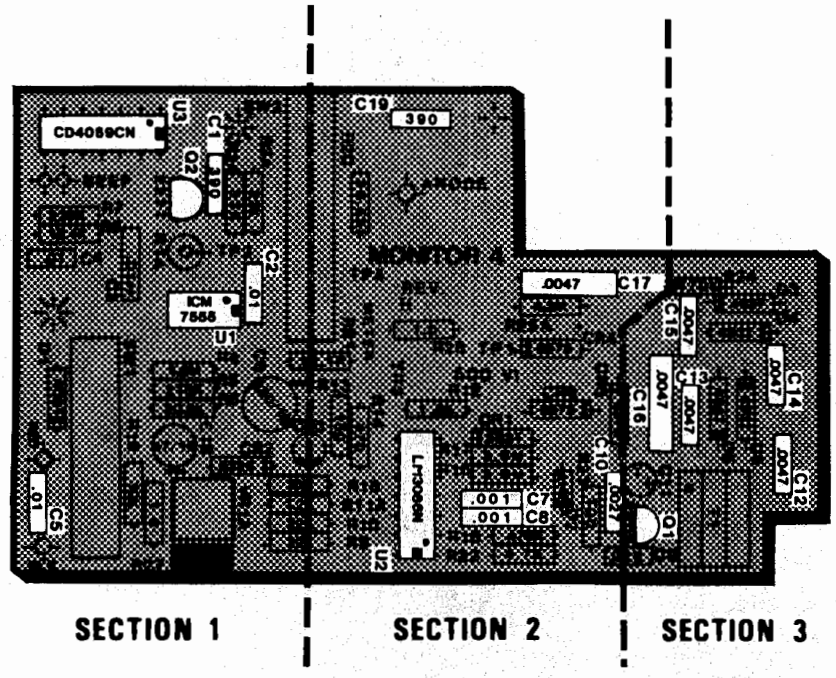
4. Refer to the circuit board X-Ray View on Manual Page 30 for the physical location of parts.




+9V
C2 .01
U1 230-5491
R1A 47K
TP2
Q2 230-5489
C1 390
R2A 33K
R3A 22K
V1 712
C19 390
C17 * .0047
TP1
R25 4.3 M
R24 470K
500V REG
C16 * .0047
D3 230-5483
D4 230-5483
D5 230-5483
D6 56-64
C15 ** .005
C14 ** .005
C13 ** .005
C12 ** .005
70 n
T1 230-5507
(14Ω)
(60Ω)
R28 1
TP12
Q1 230-5490
C9 .022
C10 .0027
C11 10μF
R23 100
R4 1.8 M
R5 215K
SW2
R21 12.1K 1%
C6 220μF
M1 mA
D7 56-64
TP4
R6 20.5M
C3 .01
SW1
J1
C5 .01
D1 230-5517
C18 47
U3
R27 1
R19 10K
R10 22K
U2E
R12 1500
U2C
R20 41.2K 1%
R9 22K
CR1 56-16
R14 470
U2D
R13 150
R15 10K
RED
CR3 230-5488
CR2 230-5487
R11 1200
VR1A 1000
CR4 230-5486
CR5 230-5486
CR6 230-5486
D2 56-64
R18 470K
R22 4700
R17 3.9 M
R16 3.9 M
C8 .001
C7 .001
U2
A
B
U3: 230-5492
U2: 230 5493
R7 220K
R8 12.4K
C4 .01
SP1 230-5494
* MAY BE .005μF, Y5P
** MAY BE .0047μF, Z5U



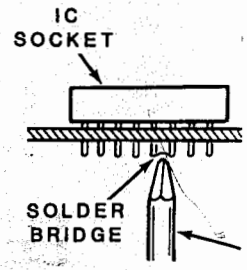
PICTORIAL 1-1



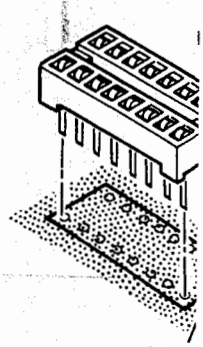
PICTORIAL 1-2

SOCKET INSTA

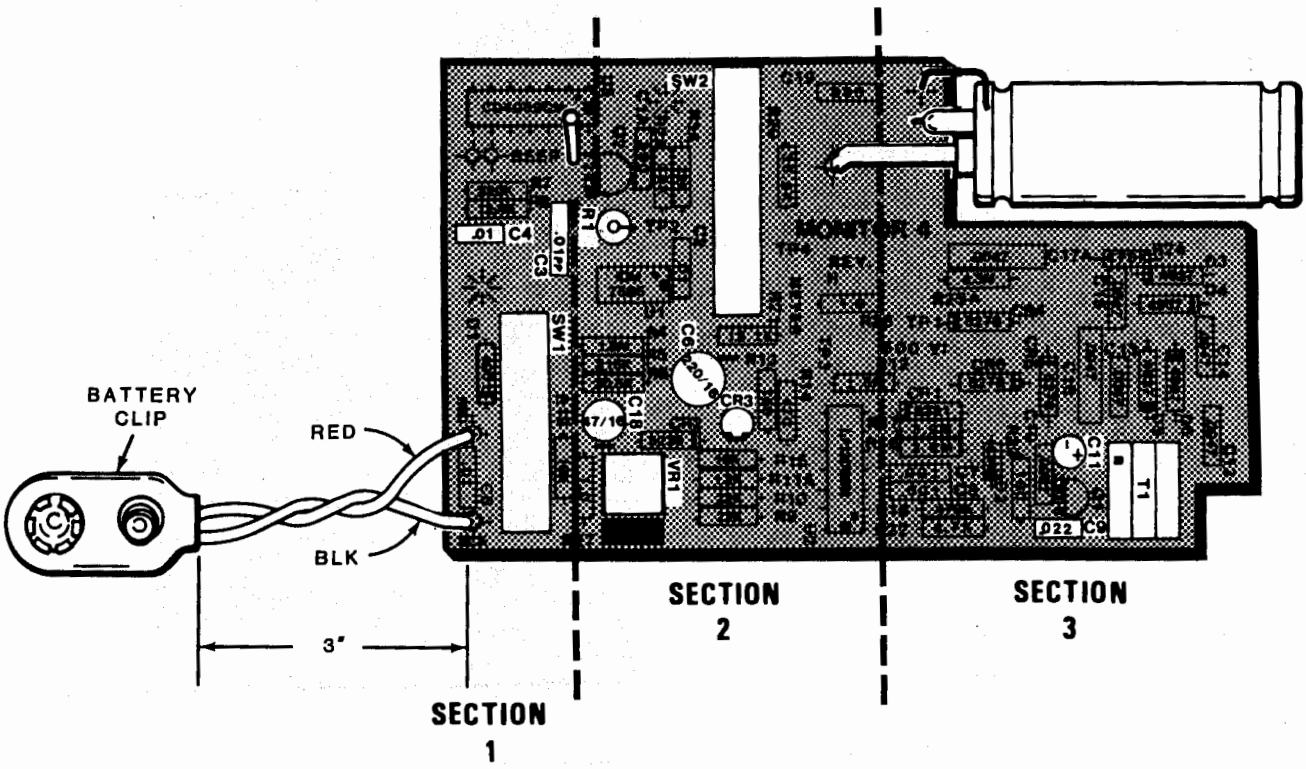
As you install IC sockets
ful that you do not bri
tween socket pins. (Sold
tween two pins that are
foil is all right.) If a
should occur, hold the
foil-side-down as show
your soldering iron tip be
points where solder is bri
der will flow down the i
can use desoldering braid



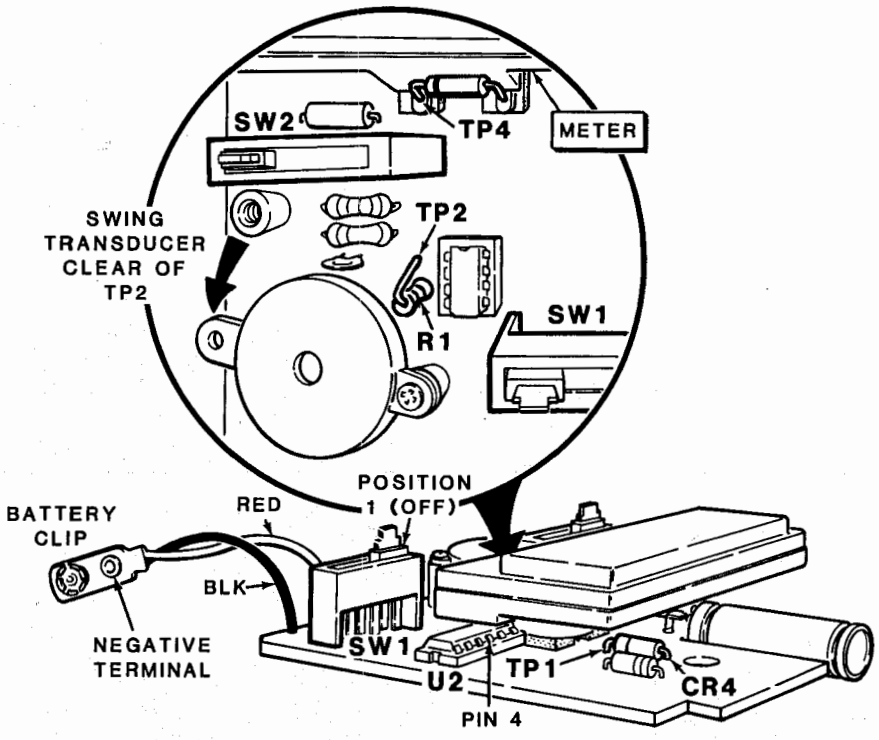
Install IC sockets, be su
pins are straight and ins
pins into the holes. The i
the circuit board must s
after it is intalled. Solde
the foil as you install each
ets may have fewer or a g
of pins than shown here.



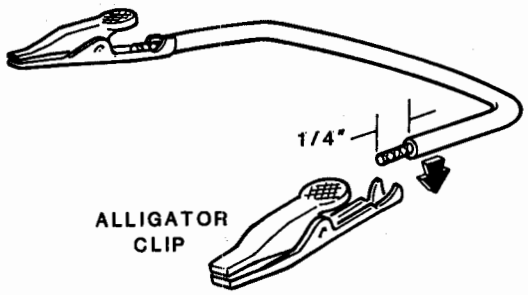
INDE
MAR



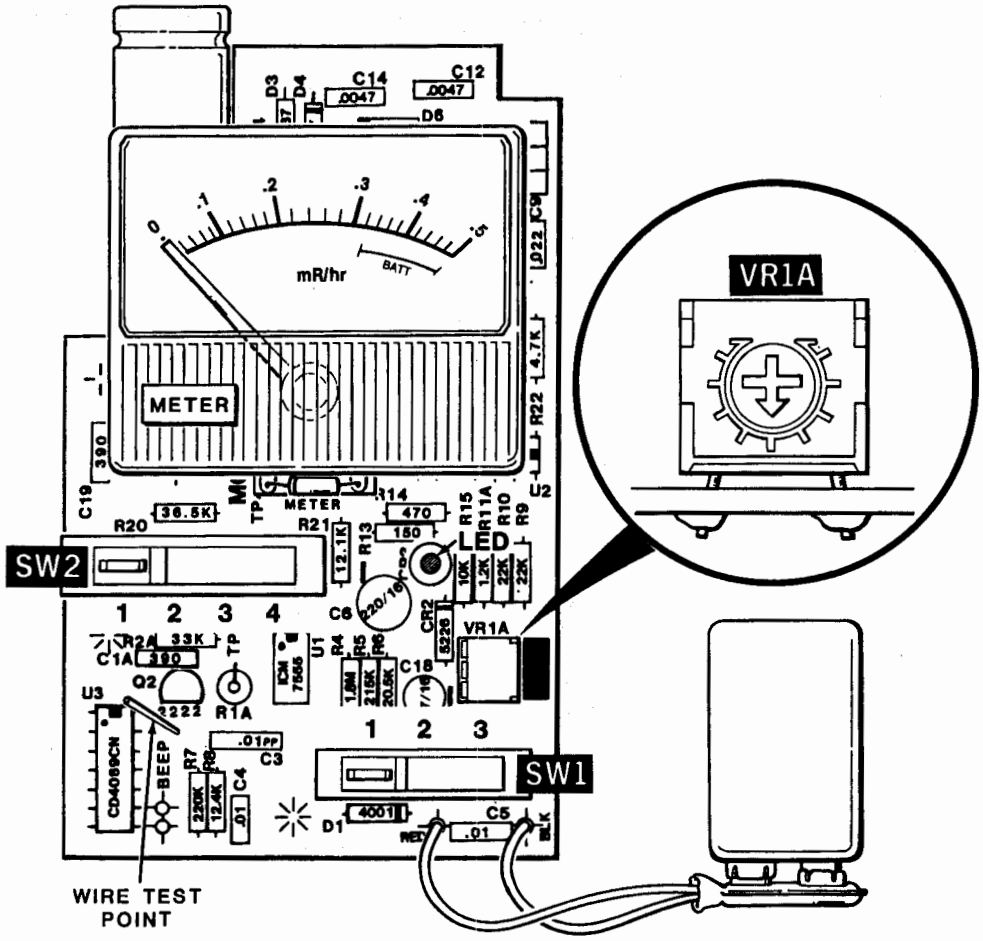
PICTORIAL 1-3



PICTORIAL 2-1



DETAIL 2-1A



PICTORIAL 2-2